

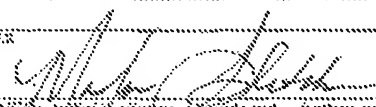


INFORMATION DISCLOSURE CITATION IN AN APPLICATION							Docket Number	Application Number	
							23435-007-403	10/705,861	
Applicant(s)							Randall B. METCALF		
Filing Date							November 13, 2003		
Form PTO-1449							Group Art Unit 2837		
U.S. PATENT DOCUMENTS									
EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
[Signature]	1A	3,158,695	11/24/1964	Camras	369	81			
	1B	4,105,885	08/08/1978	Gulbory	179	1			
	1C	4,408,095	11/04/1983	Angs et al.	381	24			
	1D	4,422,048	12/20/1983	Edwards	330	109			
	1E	4,481,650	11/06/1984	De Koning et al.	381	56			
	1F	5,260,720	11/09/1992	Ide et al.	389	5			
	1G	5,492,350	08/18/1995	Yamashita et al.	381	63			
	1H	5,740,260	04/14/1998	Odum	381	119			
	1I	5,781,645	07/14/1998	Beale	381	182			
	1J	5,822,438	10/13/1998	Sekine et al.	381	17			
FOREIGN PATENT DOCUMENTS									
REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES NO			
1K	5 593 278 A	04/26/1994	EUROPE						
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
[Signature]	1L	AMATIGAIN et al., "Transmitting Audio Content as Sound Objects", AES 22 nd International Conference on Virtual, Synthetic and Entertainment Audio, Music Technology Group, IIA, UPF, Barcelona, Spain, pages 1-11.							
	1M	AMUNDSEN, "The Propagator Matrix Related to the Kirchhoff-Heimholtz Integral in Inverse Wavefield Extrapolation", Geophysics, Volume 59, No. 11, December 1994, pages 1902-1906.							
	1N	AVANZINI et al., "Controlling Material Properties in Physical Models of Sounding Objects", CMC 01-1 Revised Version, pages 1-4.							
	1O	BOONE, "Acoustic Rendering with Wave Field Synthesis", Presented at Acoustic Rendering for Virtual Environments, Greenwood, UT, May 26-29, 2001, pages 1-9.							
	1P	BUDNIK, "Discretizing the Wave Equation", In What is and what will be: Integrating Spirituality and Science. Retrieved July 3, 2003, from http://www.mnmath.com/whatsnode47.html , 12 pages.							
	1Q	CAMPOS, et al., "A Parallel 3D Digital Waveguide Mesh Model with Tetrahedral Topology for Room Acoustic Simulation", Proceedings of the COST G-6 Conference on Digital Audio Effects (DAFx-00), Verona, Italy, December 7-9, 2000, pages 1-6.							
	1R	CAULKINS et al., "Wave Field Synthesis Interaction with the Listening Environment, Improvements in the Reproduction of Virtual Sources Situated inside the Listening Room", Proc. of the 6 th Int. Conference on Digital Audio Effects (DAFx-03), London, U.K., September 8-11, 2003, pages 1-4.							
	1S	CHOPARD et al., "Wave Propagation in Urban Microcells: A Massively Parallel Approach Using the TLM Method", Retrieved July 3, 2003, from http://cui.unige.ch/~luthi/links/inv/tlm.html , 1 page.							
	1T	CORREY et al., "An Integrated Multidimensional Controller of Auditory Perspective in a Multichannel Soundfield", presented at the 111 th Convention of the Audio Engineering Society, New York, New York, pages 1-10.							
	EXAMINER [Signature] DATE CONSIDERED 7/24/06								
EXAMPLE: Indicate if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.									

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		November 13, 2003	2837				
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EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE OR PRIORITY
FOREIGN PATENT DOCUMENTS							
REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	3A	MILLER-DALY, "What You Need to Know About 3D Graphics/Virtual Reality: Augmented Reality Explained", retrieved December 5, 2003, from http://www.3dabout.com/library/weekly/aa012203a.htm , 3 pages.					
	3B	MULLER-TOMPELDE, "Hybrid Sound Reproduction in Audio-Augmented Reality", AES 22 nd International Conference on Virtual, Synthetic and Entertainment Audio, pages 1-4.					
	3C	NEUMANN et al., "Augmented Virtual Environments (AVE) for Visualization of Dynamic Imagery", Integrated Media Systems Center, Los Angeles, California, 5 pages.					
	3D	"New Media for Music: An Adaptive Response to Technology", Journal of the Audio Engineering Society, Volume 51, No. 6, June 2003, pages 575-577.					
	3E	NICOL et al., "Reproducing 3D-Sound for Videoconferencing: a Comparison Between Holography and Ambisonic", France Telecom CNET Lannion, 4 pages.					
	3F	RIEGELSDENGER et al., "Advancing 3D Audio Through an Acoustic Geometry Interface", 6 pages.					
	3G	"Brains of Deaf People Rewired to 'Hear' Music", ScienceDaily Magazine, University of Washington, November 28, 2001, 2 pages.					
	3H	SMITH, "Deaf People Can 'Feel' Music: Might Explain How Some Are Able to Become Performers", retrieved December 3, 2001, from http://my.webmd.com/diagnosing/article/183050576 , 1 page.					
	3I	SANTACCHI et al., "Enhanced 3D Sound Field Synthesis and Reproduction System by Compensating Interfering Reflections", Proceedings of the COST G-6 Conference on Digital Audio Effects (DAFX-00, Verona, Italy, December 7-9, 2000, pages 1-6.					
	3J	SPORS et al., "High-Quality Acoustic Rendering with Wave Field Synthesis", University of Erlangen-Nuremberg, Erlangen, Germany, November 20-22, 2002, 6 pages.					
	3K	THEILE, "Spatial Perception in WFS Rendered Sound Fields", 2 pages.					
	3L	THEILE et al., "Potential Wavefield Synthesis Applications in the Multichannel Stereophonic World", AES 24 th International Conference on Multichannel Audio, pages 1-15.					
	3M	TOOLE, "Direction and Space, the Final Frontier: How Many Channels do We Need to be Able to Believe that We are 'There'?", Harman International Industries, Northridge, California, pages 1-30.					
	3N	TOOLE, "Audio-Science in the Service of Art," Harman International Industries, Northridge, California, pages 1-23.					
EXAMINER		DATE CONSIDERED					
		7/24/06					
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

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				23435-007-403		10/705,881	
				Applicant(s)			
				Randall B. METCALF			
				Filing Date		Group Art Unit	
Form PTO-1449				November 13, 2003		2637	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE or OFF-DATE
FOREIGN PATENT DOCUMENTS							
	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)							
	4A	TSINGOS et al., "Validation of Acoustical Simulations in the 'Bell Labs Box'", Bell Laboratories-Lucern Technologies, 7 pages.					
	4B	University of York Music Technology Research Group, "Surrounded by Sound--A Sonic Revolution", retrieved February 10, 2004, from http://www.users.york.ac.uk/~dm2/RS/RSweb.htm , 7 pages.					
	4C	VAANANEN, "User Interaction and Authoring of 3D Sound Scenes in the Carrouso EU Project", Audio Engineering Society Convention Paper 5764, Presented at the 114 th Convention, March 22-25, 2003, pages 1-9.					
	4D	VAANANEN et al., "Encoding and Rendering of Perceptual Sound Scenes in the Carrouso Project", AES 22 nd International Conference on Virtual, Synthetic and Entertainment Audio, pages 1-9.					
	4E	"Virtual and Synthetic Audio: The Wonderful World of Sound Objects", Journal of Audio Engineering Society, Volume 51, No. 1/2, January/February 2003, pages 93-98.					
	4F	WITTEK, "Optimised Phantom Source Imaging of the High Frequency Content of Virtual Sources in Wave Field Synthesis", A Hybrid WFS/Phantom Source Solution to Avoid Spatial Aliasing, Munich, Germany, Institut für Rundfunktechnik, 2002, pages 1-10.					
	4G	WITTEK, "Perception of Spatially Synthesized Sound Fields", University of Surrey - Institute of Sound Recording, Guildford, Surrey, UK, December 2003, pages 1-43.					
	4H	YOUNG, "Networked Music: Bridging Real and Virtual Space", Peabody Conservatory of Music, Johns Hopkins University, Baltimore, Maryland, 4 pages.					
	4I	"Discretizing of the Huygens Principle", retrieved July 3, 2003, from http://eu.unice.ch/~luthi/links/lin/code3.htm , 2 pages.					
	4J	"The Dispersion Relation", retrieved May 14, 2004, from http://eu.unice.ch/~luthi/links/lin/code4.htm , 3 pages.					
EXAMINER:  DATE CANCELED: 7/26/06							
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 808; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

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